



**AUTO
MOTIVE
CIRCLE**

FEB 4–5

AGENDA

EALA –

EUROPEAN AUTOMOTIVE LASER APPLICATIONS

TUESDAY | FEBRUARY 4

8.40 am **Welcome and conference introduction**
Dr. Dirk Meine, Automotive Circle, DE

OEM LASER SYSTEM CONCEPTS

9.00 am **Lasers from manual rework to automated series production**

Markus Lachenmaier, BMW Group, DE; Georg Meyndt, Alpha Laser GmbH, DE

9.30 am **Laser weldability in the context of a new assembly concept in the electric powertrain**

Dr. Andreas Bünting, Mercedes-Benz AG, DE; Richard Steinbrecht, Lessmüller Lasertechnik GmbH, DE

10.00 am **Solution for copper bus-bar welding with large cross sections using standard IR laser sources**

Pravin Sievi, Scansonic MI GmbH, DE

10.30 am **Meet the Speakers / Exhibition / Coffee and contacts**

STRUCTURAL CAR BODY LASER APPLICATIONS

11.15 am **Dual Ring Beam laser welding of Aluminium & Cast Aluminium**

Jarno Kangastupa, Coherent Corp, FI

11.45 am **Remote laser weldable Al6xxx-extrusions**

Wojciech Osikowicz, Hydro Extrusions, SE

12.15 pm **Standardised system technology to reduce the complexity of laser brazing applications**

Volker Bittermann, Volkswagen AG, DE; Alexander Dobbert, Coherent Corp., DE

12.45 pm **Meet the Speakers / Exhibition / Lunch break**

NEW FUNCTIONALITY

2.00 pm **Invisible laser structuring as a security feature**

Dr. Christian Freitag, LightPulse Laser Precision, DE

2.30 pm **Rapid coating of brake discs: laser cladding that enables sustainability**

John Stavridis, Prima Additive, IT

3.00 pm **Ultra high speed scanner optics for cleaning applications**

Edwin Büchter, Clean-Lasersysteme GmbH, DE

3.30 pm **Meet the Speakers / Exhibition / Coffee and contacts**

LASER WELDING IN E-MOBILITY APPLICATIONS

4.15 pm **About the influence of welding parameters and external influences during busbar welding of prismatic cells and what can be detected using spectroscopy**

Dr. Christian Otten, LaVa-X GmbH, DE

4.45 pm **The holistic approach for economically welding battery interconnects**

Sebastian Moser, Precitec, Inc., US; William Huffman, Photon Automation, Inc., US

5.15 pm **Artificial intelligence based in-line weld quality for Battery Cell Assembly and Busbar**

Hassan Ghassemi-Armaki, General Motors Company, US
– online presentation –

5.45 pm **Meet the Speakers / Exhibition / Get together**

7.15 pm **Networking Dinner**

* All times in CET (UTC+1)

Conference program is subject to change

Status as of: January 24, 2025

EALA – EUROPEAN AUTOMOTIVE LASER APPLICATIONS 2025

Conference venue: DOLCE by Wyndham Bad Nauheim
Elvis-Presley-Platz 1 | DE-61231 Bad Nauheim
www.dolcebadnauheim.com

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WEDNESDAY | FEBRUARY 5

LASER PROCESS INNOVATIONS

9.00 am Novel laser processes for joining AlSi-coated boron steel – How beam shaping becomes a game changer for the car body industry

Marc Hummel, Trumpf Laser- und Systemtechnik SE, DE

9.30 am Innovative all-reflective laser beam shaping for robust laser welding

Frederik Wolf, Midel Photonics GmbH, DE

10.00 am Meet the Speakers / Exhibition / Coffee and contacts

WELD QUALITY MONITORING (I)

10.45 am The importance of customized integrated solutions for laser welding quality monitoring based on mass production experience

Yongjoon Cho, Monitech Co., Ltd., KR

11.15 am Application of laser processing and monitoring technology in the visible range for e-mobility parts

Dr. Hideaki Shirai, Denso Corporation, JP

11.45 am Smart laser welding by AI supported process monitoring and control – review, current results, and future potential

Dr. Michael Ungers, Scansonic MI GmbH, DE;
Julius Neuß, Fraunhofer Institute for Laser Technology ILT, DE

12.15 pm Data-driven process maps for laser welding: Accelerating development and predicting weld quality

Andreas Heider, Robert Bosch GmbH, DE

12.45 pm Meet the Speakers / Exhibition / Lunch break

WELD QUALITY MONITORING (II)

2.00 pm Pre and post scanning weld interfaces to improve weld quality

William Waywell, Oliver Bailey, Jaguar Land Rover Ltd., UK

2.30 pm Multi-spectral analysis of hairpin welds

Dr. Sören Hollatz, 4D Photonics GmbH, DE

3.00 pm Static and dynamic laser beam shaping for e-mobility applications: Physical and practical impacts via computational fluid dynamics simulation

Marcin Serdeczny, Flow Science Inc., US

OEM OUTLOOK AND CONCLUSIONS

3.30 pm OEM Advisory Board experts on current challenges regarding laser application in automotive production

3.45 pm Farewell address and end of the conference

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EALA – EUROPEAN AUTOMOTIVE LASER APPLICATIONS 2025

Conference fee: 1.995 € (until January 3) | 2.195 (after January 3)

All prices plus 19% German VAT

Registration and Terms & Conditions at www.automotive-circle.com

SEE YOU AGAIN NEXT YEAR AT THE **EALA CONFERENCE IN FEBRUARY 2026**
IN BAD NAUHEIM!